

FACILITIES MAINTENANCE

A student who has completed the Job Corps Facilities Maintenance program is equipped with the skills to contribute to your company as a valued employee from day one. Competence in academic and vocational skills is required for graduation. In addition, Job Corps students learn employability and technological skills. To complete his or her Facilities Maintenance training, a student must master skills in these categories:

MAINTENANCE HELPER

GENERAL SAFETY

Use tools, ladders and scaffolding; know how to respond to an emergency situation; handle and store chemicals according to OSHA and Material Safety Data Sheet (MSDS) standards; identify safe work-site procedures, including fall protection; properly operate fire safety equipment; properly lift and carry construction materials.

LADDERS AND SCAFFOLDS

Select, position, raise and lower ladders; demonstrate proper use of scaffolding.

MEASURING TOOLS AND EQUIPMENT

Identify and use basic measuring tools (tapes, squares, levels, plumb bobs, etc.).

MATH

Perform basic math operations; lay out and make angular measurements; calculate square-foot and linear measurements; compute volume (cubic yards) for concrete; square corners using the 3-4-5 method.

CARPENTRY MAINTENANCE

Identify and use basic hand tools, power tools, anchors, fasteners and other carpentry-related materials; replace, repair and install siding, exterior trim, roof flashing, roofing, downspouts and guttering, drywall, plaster walls, interior walls, ceiling installation, floor coverings and interior trim; perform weatherizing procedures.

CONCRETE AND MASONRY MAINTENANCE

Identify and use concrete-related materials; set form; mix concrete; patch and/or repair concrete surfaces; mix mortar.

SURFACE FINISHING AND SEALING (DRYWALL AND WOOD)

Identify and use surface finishing-related materials; prepare surface for finish; select, prepare and apply finishing materials; clean and store finishing equipment and materials.

PLUMBING MAINTENANCE

Identify and use plumbing-related materials; cut, clean and glue plastic pipe; assemble compression fittings; replace or repair plumbing fixtures, connections and accessories; clean or replace traps, drains and vents; identify backflow prevention; caulk around fixtures.

ELECTRICAL MAINTENANCE

Identify electrical-related materials; use electrical test equipment; troubleshoot, repair and replace outlets, switches, fuses and fixtures; identify power supplies; wire low-voltage and 120V circuits; identify and correct defective two-wire and three-wire cords and plugs.

ENVIRONMENTAL CONTROL SYSTEMS

Replace and adjust belts and lubricate bearings; clean condensing units and evaporator coils; replace furnace and cooling filters.

BUILDING SAFETY SYSTEMS

Locate shut-offs for electrical devices and plumbing fixtures; identify potential electrical hazards; check condition of emergency exit floor plans; test battery-operated smoke detectors; maintain emergency lighting systems, exit lights and signs.

GROUNDSKEEPING

Use and maintain groundskeeping equipment; police grounds; prune trees and shrubs.

SWIMMING POOL MAINTENANCE (WHERE APPROPRIATE)

Explain daily pool operations and water tests; explain spring start-up and fall shut-down procedures.

SNOW REMOVAL (WHERE APPROPRIATE)

Remove snow and slush; remove ice with ice chippers or scrapers; prevent slip hazards using approved materials.

MAINTENANCE TECHNICIAN**MAINTENANCE HELPER SKILLS PLUS THE FOLLOWING:****CARPENTRY MAINTENANCE**

Replace, repair and install exterior and interior doors, windows, floor and wall tile, cabinets and shelving.

CONCRETE AND MASONRY MAINTENANCE

Pour and finish concrete; remove, repair and replace walls, block, brick and stone.

PLUMBING MAINTENANCE

Cut, prepare and solder copper pipe; cut and thread pipe; locate, repair and service leaks; service, repair and replace garbage disposals.

ELECTRICAL MAINTENANCE

Troubleshoot, repair and replace conductors and breakers; bend and connect conduit; install, replace and service alarms, detectors and exterior lighting fixtures.

ENVIRONMENTAL CONTROL SYSTEMS

Replace electric motors and bearings; service pilot systems; clean or replace heating elements; troubleshoot and replace thermostats and controls; inspect and clean heat exchangers.